

Project :
Created By :

Customer Input

Selected Model / Type : UAM80C3F / Fixed Speed Scroll Chiller Version C
Ambient Temperature : 30.0 °C Frequency : 50 Hz
Chilled Water : EWT 99.00 °C Voltage : 380-415 V
LWT 8.00 °C Country of Origin : Malaysia

Generated Outputs

Full Load Performance		Nominal Data (AHRI Standard)		Input Conditions	
Cooling Capacity	:		80.00	80.00	TR
			281.4	281.4	kW
Current	:	Compressor	161	150	A
		Fan	18	18	A
		Total	179	168	A
Power Input	:	Compressor	92.20	83.34	kW
		Fan	12.00	12.00	kW
		Total	104.2	95.34	kW
COP	:		2.700	2.951	kW/kW
Flow Rate	:		48.45	15.75	m ³ /h
Pressure Drop	:		37.4	5.41	kPa

Note :
1. Nominal data is based on the AHRI (551/591) standard condition of EWT/LWT of 12.00/7.00°C, and ambient temperature of 35.0°C.
2. Input Condition data is based on customer's input condition of EWT/LWT , and ambient temperature.
3. Evaporator rating fouling factor = 0.018 m².K/kW, and rating altitude at 0 m.

Part Load Performance

IPLV	:	3.926								kW/kW
Point	:	1	2	2	3	3	4	-	-	-
Corresponding Capacity	:	100.0	82.0	62.5	55.7	34.2	29.6	-	-	-
Total Cooling Capacity	:	80.00	65.59	50.00	44.59	27.37	23.69	-	-	TR
Total Cooling Capacity	:	281.4	230.7	175.9	156.8	96.25	83.32	-	-	kW
Total Power Input	:	104.2	66.57	51.80	37.56	22.79	17.21	-	-	kW
Total Current	:	179	118	93	69	43	33	-	-	A
COP	:	2.700	3.465	3.395	4.175	4.223	4.841	-	-	kW/kW
Ambient Temperature	:	35.0	27.0	27.0	19.0	19.0	13.0	-	-	°C
EEWT	:	12.00	11.10	10.13	9.79	8.71	8.48	-	-	°C
ELWT	:	7.00	7.00	7.00	7.00	7.00	7.00	-	-	°C
Flow Rate	:	48.45	48.45	48.45	48.45	48.45	48.45	-	-	m ³ /h
Pressure Drop	:	37.4	37.4	37.4	37.4	37.4	37.4	-	-	kPa

Others

MCA	:	223								A
No. of Refrigerant Circuit	:	2								-
Refrigerant Type	:	R410A								-
Refrigerant Charge	:	System 1/2	25.0 / 25.0							kg/System
Chiller Dimension	:	W / D / H	2237 / 3263 / 2156							mm
Weight	:	Shipping	2917							kg
	:	Operating	3039							kg

Evaporator

Type	:	S&T								-
Inlet/Outlet Diameter	:	5" Victaulic Joint								-
Flow Rate	:	Min / Max	15.00 / 56.70							m ³ /h
Pressure Drop	:	Min / Max	5.00 / 47.0							kPa

Compressor

Quantity	:	System 1/2	2 / 2	
Type	:		Hermetic-sealed (Scroll)	-
Oil Charge	:	System 1/2	13.4 / 13.4	L/System

Condenser

Coil	:									-
Tube	:	Type	Copper							-
Fin	:	Type	Aluminium							-
Surface Area/ Coil	:	11.52							m ² /Coil	
Fan	:									-
Type/ Drive	:	Axial / Direct								-
Quantity per System	:	3								-

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified Units may be found in the AHRI Directory at www.ahridirectory.org

